

STATE OF ILLINOIS
ILLINOIS COMMERCE COMMISSION

COMMONWEALTH EDISON)
COMPANY)
) Docket No. 07-0566
Proposed general increase in electric)
rates)

DIRECT TESTIMONY

OF

DR. DALE E. SWAN

ON BEHALF OF

THE

UNITED STATES DEPARTMENT OF ENERGY

FEBRUARY 11, 2008

EXETER

ASSOCIATES, INC.

5565 Sterrett Place
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ILLINOIS COMMERCE COMMISSION

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1 Q. PLEASE STATE YOUR NAME, OCCUPATION AND ADDRESS.

2 A. My name is Dale E. Swan. I am a senior economist and principal with Exeter
3 Associates, Inc. Our offices are located at 5565 Sterrett Place, Columbia, Maryland
4 21044.

5 Q. DR. SWAN, PLEASE SUMMARIZE YOUR PROFESSIONAL
6 QUALIFICATIONS.

7 A. I hold a B.S. degree in Business Administration from Ithaca College. I attended a
8 master's program in economics at Tufts University, and I hold a Ph.D. in economics
9 from the University of North Carolina at Chapel Hill. Prior to my consulting work, I
10 served as Assistant and Associate Professor on the economics faculties of several
11 colleges and universities. I also served as staff economist with the Federal Energy
12 Administration and with the Arabian American Oil Company. For the last 30 years, I
13 have consulted on matters primarily related to the electric utility industry, the last 26
14 years with Exeter. Much of my work over the last two decades has concentrated in
15 the areas of long-term electric power supply planning and contract negotiations for
16 large power users, and on electric utility cost allocation and rate design. For much of

17 this period, I have directed Exeter's utility support services projects with the United
18 States Department of Energy (DOE). As part of this work, I have been responsible
19 for technical supervision of Exeter's participation in DOE interventions in numerous
20 rate cases, for the financial and locational assessment of generation projects, and for
21 the negotiation of technical aspects of power supply and facilities contracts.

22 A complete copy of my resume is provided as an attachment to my testimony.

23 Q. HAVE YOU TESTIFIED IN OTHER REGULATORY PROCEEDINGS?

24 A. Yes. I have testified on a variety of topics relating to electric utilities in 56
25 proceedings before federal and state regulatory commissions. A complete list of the
26 cases in which I have testified is provided as part of my resume.

27 Q. DR. SWAN, WHAT IS THE PURPOSE OF YOUR TESTIMONY?

28 A. I have been asked by the Department of Energy (DOE), on behalf of the Federal
29 Executive Agencies (FEA), to address the class cost allocations that are proposed by
30 Commonwealth Edison Company (ComEd or the Company), as well as the
31 distribution facilities charges that are proposed for the several classes of non-
32 residential Delivery Service customers under Rate RDS (Retail Delivery Service). In
33 addition, I shall address the rate design implications of the Company's proposed new
34 Rider SEA (Storm Expenses Adjustment). Finally, I shall address the Company's
35 proposal to terminate Rider ACT credits.

36 Q. WHAT MAJOR FEA FACILITIES TAKE SERVICE FROM COMED?

37 A. Two large DOE science laboratories take delivery service from ComEd. Argonne
38 National Laboratory (Argonne) has a peak load of around 41 MW and takes service at
39 138 kV. Fermi National Accelerator Laboratory (Fermi) has a peak demand of
40 approximately 62 MW and takes service at 345 kV. The Great Lakes Naval Training
41 Center has an annual peak demand in the neighborhood of 24 MW. It is served over

42 two 138 kV lines to the site and through two 138 kV/34.5 kV transformers that are
43 owned by the Company. All three FEA sites are served under Rate RDS (Retail
44 Delivery Service) as part of the High Voltage Delivery Class, with loads in excess of
45 10,000 kW.

46 Q. DR. SWAN, DO YOU PROVIDE EXHIBITS IN SUPPORT OF YOUR
47 TESTIMONY?

48 A. Yes, I have attached DOE Exhibits 1.1 and 1.2 to my testimony.

49 Q. WERE THESE EXHIBITS PREPARED BY YOU OR UNDER YOUR
50 SUPERVISION?

51 A. Yes.

52 Q. DR. SWAN, PLEASE BRIEFLY SUMMARIZE YOUR CONCLUSIONS
53 AND RECOMMENDATIONS.

54 A. As a result of my evaluation of the Company's proposed cost allocation and rate
55 design, I draw the following conclusions and make the following recommendations.
56

- 57 1. The Company's embedded cost of service study (ECOSS) is fundamentally
58 flawed, provides results that lack internal logic, and should not be used as the
59 basis upon which to determine class cost responsibilities and to set rates for
60 non-residential classes.
- 61 2. Rates for non-residential classes should be adjusted by the overall
62 jurisdictional percentage increase that is allowed by the Commission.
- 63 3. If the Commission decides to base rates on the Company's flawed ECOSS,
64 then adjustments should be made to the costs of the two High Voltage classes
65 to eliminate loads served at voltages below 69 kV, and the costs of the low
66 voltage system that are allocated to these lower voltage loads.

- 67 4. The Commission should direct the Company to disaggregate costs at least
68 between the primary and secondary system when conducting its next
69 embedded cost of service study.
- 70 5. The Company's proposed Rider SEA - Storm Expenses Adjustment -- will
71 result in an improper allocation of storm-related cost or credits. This is
72 sufficient reason for the Commission to reject the rider. Consideration should
73 be given to a reserve accounting mechanism to make the Company whole for
74 storm damage expenses, which would avoid the rate design problems
75 associated with Rider SEA.
- 76 6. The Company's proposal to require the involuntary termination of Rider ACT
77 credits for customers who have received that credit for 30 years is based on
78 faulty logic and is unfair to the affected customers. The Company's proposal
79 should be restricted to a voluntary program.

80
81 **THE COMPANY'S RATE DESIGN PROPOSAL**
82 **FOR NON-RESIDENTIAL CLASSES**

83 Q. PLEASE SUMMARIZE THE COMPANY'S PROPOSED RATE CHANGES
84 FOR NON-RESIDENTIAL DELIVERY SERVICE CUSTOMERS.

85 A. In response to the Commission's Order in Docket No. 05-0597, the Company
86 designed rates for seven classes of non-residential delivery service customers, and it
87 has retained these seven customer classes in this filing. The rates that are proposed
88 by the Company, and presented by Mr. Alongi and Dr. Jones, are developed through a
89 mechanistic translation of the embedded unit costs into rates for the various
90 components of service. This mechanistic translation is presented in ComEd Exhibit
91 12.2.

92 Q. WHAT DO YOU MEAN BY A MECHANISTIC TRANSLATION OF UNIT
93 COSTS INTO RATES?

94 A. Mr. Alongi and Dr. Jones calculate the unit cost of each particular component of
95 service by taking the total allocated embedded cost from the Company's embedded
96 cost of service study (ECOSS), presented by Mr. Heintz in ComEd Exhibit 13.1, and
97 by dividing that total dollar amount by the billing units for the component of service
98 in question to obtain the average unit cost of that service component, based on the
99 ECOSS. For all intents and purposes, those unit costs for the Distribution Facilities
100 Charge (DFC) were simply set as the DFC rates for the several classes of non-
101 residential customers. Since the lion's share of these customers' delivery service
102 revenues are recovered through the DFC, this amounts to rates that would recover
103 almost exactly the cost of service that is allocated to each of these several customer
104 classes by the Company's ECOSS. Thus, the reasonableness of the Company's
105 proposed rates rests heavily on the reasonableness of the Company's ECOSS, and the
106 appropriateness of using the Company's ECOSS to set rates in this proceeding.

107 Q. IS THIS THE SAME METHOD THAT THE COMPANY PROPOSED IN
108 ITS LAST DELIVERY SERVICE CASE?

109 A. Yes. The Company proposed exactly the same mechanistic rate design in Docket No.
110 05-0597, except that the Company also attempted to consolidate the four largest non-
111 residential classes into one. The Company's mechanistic rate design approach was
112 rejected by the Commission as it applied to the non-residential classes, as was its
113 proposal to consolidate the largest non-residential classes.

114 Q. DR. SWAN, WOULD YOU PLEASE SUMMARIZE THE MAJOR RATE
115 CHANGES FOR THE SEVERAL NON-RESIDENTIAL CLASSES.

116 A. Yes. As I mentioned, the bulk of these customers' delivery services revenues are
 117 recovered through the Distribution Facilities Charge, which applies to the monthly
 118 peak demand. Table 1, below, provides a comparison of the current DFC for each
 119 non-residential class with the DFC that the Company proposes to place into effect at
 120 the end of this case. The last column shows the percentage changes in this charge
 121 that would result from adoption of the Company's proposal.
 122

Table 1 Non-Residential Distribution Facilities Charges (\$/kW-Month)			
<u>Delivery Class</u>	<u>Current</u>	<u>Proposed</u>	<u>% Change</u>
Small Load (0-100 kW)	\$4.29	\$4.88	13.8%
Medium Load (101-400 kW)	5.01	5.70	13.8
Large Load (401-1,000 kW)	5.37	6.08	13.2
Very Large Load (1,000-10,000 kW)	5.22	5.76	10.3
Extra Large Load (>10,000 kW)	2.46	6.01	144.3
High Voltage (over 10,000 kW)	1.09	2.41	121.1
Other High Voltage	2.22	7.21	224.8
Source: Table 3, ComEd Ex. 12.0, p. 8.			

123
 124 Q. DO THESE PROPOSED CHANGES RESULT IN RATE SHOCK FOR
 125 CERTAIN LARGE NON-RESIDENTIAL CLASSES?

126 A. Yes. Keep in mind as a point of reference that the systemwide increase requested by
 127 the Company is 21.4 percent. With this system-wide increase as a point of reference,
 128 the proposed increases for the largest non-residential classes clearly are out of line
 129 and represent unreasonable increases. Specifically, the proposed percentage increases
 130 are 144 percent for the Extra Large Load class, 121 percent for the High Voltage class

131 with loads in excess of 10 MW, and nearly 225 percent for the class of High Voltage
132 customers with loads up to 10 MW. If account is taken of the Company's proposal to
133 eliminate Rider ACT credits for certain customers, the effective percentage increases
134 for customers owning their own transformers would rise to 153 percent, 140 percent,
135 and 234 percent, respectively, for those same three classes of customers. I think there
136 is little doubt that increases of this magnitude, especially as compared to the proposed
137 21.4 percent average system-wide increase, are properly viewed as rate shock.
138 Increases of this magnitude certainly violate any reasonable standard of rate
139 continuity or rate stability.

140 Q. DOES THE COMPANY RECOGNIZE THE UNREASONABLE RATE
141 IMPACTS ON THIS GROUP OF CUSTOMERS THAT RESULT FROM
142 ITS PROPOSED RATES?

143 A. Yes. Mr. Crumrine has indicated in his testimony that rate impact is a consideration
144 in the design of rates in this case. He states that, "In setting the current non-
145 residential distribution charges, the Commission expressly created specific interclass
146 subsidies in ComEd's last rate Order in Docket No. 05-0597." (Lines 128-129) He
147 goes on further to state that, while ComEd does not believe these subsidies should be
148 maintained indefinitely, the Company is prepared to work with the affected parties
149 during this proceeding to fashion some kind of a phase-in program that would,
150 presumably, provide some near-term rate relief, but would gradually move these
151 customers to what Mr. Crumrine believes are the cost-based rates that the Company
152 has proposed in this proceeding.

153 Q. DO YOU CONCUR WITH MR. CRUMRINE'S CHARACTERIZATION
154 THAT THE "COMMISSION EXPLICITLY CREATED INTERCLASS

SUBSIDIES” IN SETTING THE NON-RESIDENTIAL DISTRIBUTION
CHARGES IN THE LAST CASE?

A. No. There is no language in the Orders in Docket 05-0597 that explicitly states that the Commission wished to establish any kind of interclass subsidy among non-residential classes. The concept of interclass subsidies is only meaningful with reference to the determination of the costs to serve the various customer classes. My reading of the Order in the last case is that the Commission did not accept the results of the Company’s Embedded Cost of Service Study (ECOSS) as an appropriate basis for establishing the DFCs for the several non-residential customer classes. Mr. Crumrine apparently chooses to conclude that the Commission’s decision to set rates that vary from the Company’s ECOSS means that the Commission expressly chose to establish interclass subsidies. That interpretation is self-serving. Another and more reasonable interpretation is that the Commission did not have sufficient faith in the Company’s ECOSS to use it as a basis for determining the DFCs for these several non-residential customer groups.

Q. DO YOU BELIEVE THAT IT WOULD BE REASONABLE TO FASHION
A RATE MODERATION PLAN WHEREBY THE INCREASES
PROPOSED BY THE COMPANY ARE PHASED IN FOR THE EXTRA
LARGE LOAD CLASS AND THE TWO CLASSES OF HIGH VOLTAGE
CUSTOMERS?

A. I would agree that, if the Commission were to adopt the Company’s proposed rates for these three non-residential classes, then the correct approach would be to phase in the resulting rate increases in order to provide some degree of rate continuity and stability. However, I believe the correct decision for the Commission is to reject all of the Company’s proposed non-residential DFCs because they are based on a cost

180 study that yields illogical results and that may not be the basis for determining class
181 costs in the future.

182 Q. WHY DO YOU SAY THAT THE COMPANY'S EMBEDDED COST OF
183 SERVICE STUDY MAY NOT BE THE BASIS FOR DETERMINING
184 CLASS COSTS IN THE FUTURE?

185 A. As I testified in Docket No. 05-0597, the Commission only turned to the use of an
186 embedded cost study when it was faced with the task of unbundling rates to facilitate
187 retail open access. Specifically, the Commission moved to the use of embedded costs
188 for determining class revenues and rates in Docket No. 99-0117, ComEd's first
189 delivery services case. Prior to that, the Commission had relied upon the use of
190 marginal costs for approximately two decades. My understanding is that the
191 Commission made this change because it was concerned that prices set on the basis of
192 marginal costs would provide some kind of unfair advantage to ComEd in the
193 provision of competitive services during the transition to competition, and thereby
194 retard the development of a competitive market.

195 The Company also has repeatedly endorsed the use of marginal costs as the
196 proper basis for the determination of class cost responsibilities and the design of rates.

197 Mr. Crumrine has testified, once again in this case, that:

198
199 "...while ComEd continues to support marginal cost
200 principles for the pricing of electric delivery services, in
201 the interest of narrowing the issues in this case, ComEd is
202 proposing the use of an embedded cost study for both
203 interclass revenue allocation and rate design purposes.
204 However, ComEd reserves the right to propose the use of
205 a marginal cost study in future proceedings." (ComEd
206 Ex. 11.0, lines 152-157)

207 Finally, in its Order in 05-0597, the Commission invited parties to address in
208 ComEd's next delivery services case, whether marginal cost of distribution service

has a place in setting electric distribution rates. (Order, Docket 05-0597, July 26, 2006, p. 160)

For all of these reasons, I think there is a distinct possibility that, when the transition to a competitive market is complete, the Company itself may decide to propose rates that are based on marginal costs. While it would be difficult to develop a marginal cost study on its own, another party may also take that step. Further, the Commission may believe that it is appropriate to return to the use of marginal costs to better provide price signals that reflect the value of conservation and insults to the environment. Therefore, it seems inappropriate to slavishly and mechanistically design rates that are no more than translations of unit embedded costs, especially if the resulting rates result in the kind of rate shocks that are being proposed by the Company for the Very Large Load class and the two classes of High Voltage customers. Once those rates are implemented, there could be further drastic changes in rates for these same customers, if the Commission were to decide to return to the use of marginal costs. That process is hardly consistent with the concept of rate continuity, which was one of the major ratemaking goals set forth by the venerable Professor Bonbright in his classic treatise on designing public utility rates.¹

**AN OVERVIEW OF THE COMPANY'S
EMBEDDED COST OF SERVICE STUDY**

Q. IS THERE A GENERAL TEST THAT YOU BELIEVE A COST OF SERVICE STUDY SHOULD MEET IF IT IS TO BE RELIED UPON TO SET CLASS REVENUES AND TO DESIGN RATES?

A. Yes. I think it is a generally held view among regulators, as well as among those that practice the “art” of rate design, that no one cost study provides the absolute correct

¹ James C. Bonbright, Principles of Public Utility Rates, Columbia University Press, New York, 1961, p. 291.

234 final allocation of costs among the various classes of customers or the absolutely
235 correct unit costs of the various types of service that are provided. There are simply
236 too many a priori ways to classify, functionalize and allocate costs. It is because of
237 this lack of absolute certainty about the correctness of any one method, that a reliable
238 cost of service study should at least produce results that are internally consistent and
239 logical, and that comport with fundamental relationships among the costs of serving
240 customers with differing characteristics, such as size and voltage delivery levels.
241 Regardless of the specific numbers that are generated by a cost of service study, this
242 general test needs to be met in order for the regulatory authority to have confidence
243 that the rates it sets, based on that study, will be fair and equitable.

244 Q. WHAT IS THE GENERALLY HELD VIEW REGARDING THE
245 RELATIONSHIP BETWEEN THE COST OF DELIVERY SERVICE AND
246 THE SIZE OF A CUSTOMER'S LOAD OR THE VOLTAGE DELIVERY
247 LEVEL?

248 A. It has long been generally acknowledged that the unit cost of delivery service is lower
249 for large customers as compared to smaller customers; and that the unit cost of
250 delivery service is lower for high voltage as opposed to lower voltage customers.
251 Delivery costs per kW are generally lower for larger customers for several reasons.
252 The most important of those is that, in the large category of non-high voltage service,
253 customers may be served at a number of varying voltage levels. ComEd defines High
254 Voltage Delivery Service as at or above 69 kV. That leaves a lot of different voltage
255 delivery levels that are classified as "Low Voltage" or "Standard" delivery service. A
256 standard voltage customer with a load between 1,000 kW and 10,000 kW is likely to
257 be served at 12.5kV or 34.5kV. A standard voltage customer with a load between 0
258 kW and 100 kW is most likely to be taking service off the secondary voltage

259 system -- at voltages less than 2,300 volts, according to the Company's response to
260 COC 3.099. That means that the unit cost of serving a, say, 5,000 kW customer
261 served at 34.5 kV should include only the cost of the 34.5 kV and higher voltage
262 equipment, whereas the cost of serving a 10 kW customer served at secondary voltage
263 includes the cost of the entire delivery system, from secondary voltage lines and
264 transformers, through the primary system and the sub-transmission system. In short,
265 the cost must be higher per kW for a secondary customer than a customer served off
266 the 34.5 kV system. Of course, the same relationship holds when comparing
267 customers served off what is defined as the high voltage system as opposed to what is
268 defined as the standard voltage system. In the case of ComEd, customers served at 69
269 kV or higher voltages must have lower costs per kW than customers of similar size
270 served at standard voltages.

271 Q. DOES THE COMPANY AGREE WITH THIS RELATIONSHIP BETWEEN
272 SIZE AND VOLTAGE DELIVERY LEVEL?

273 A. It would seem so. Paul Crumrine testified as follows in Docket No. 99-0117:

274
275 "There is a high degree of correlation between the size of the customer
276 and the voltage level at which that customer takes service. In general
277 the larger the customer, the higher the voltage level at which the
278 customer is served." (ComEd Ex. 33.0, p. 4, lines 86-99, ICC Docket
279 No. 99-0117.)
280

281 Q. DOES THE COMPANY'S ECOSS PRODUCE INTERNALLY LOGICAL
282 RESULTS REGARDING THE COST OF PROVIDING DISTRIBUTION
283 DELIVERY SERVICE TO THE SEVERAL CLASSES OF NON-
284 RESIDENTIAL CUSTOMERS?

285 A. No. This can be seen by reviewing Table 2. In the Company's ECOSS, the unit cost
286 of service among all the standard voltage non-residential customer classes is lowest

287 for the class of customers with loads up to 100 kW – \$4.88 per kW-month. Then the
288 unit cost per kW rises to \$5.70 per kW-month for customers between 101 kW and
289 400 kW, and to \$6.08 per kW-month for customers in the 401 kW to 1,000 kW class.
290 The cost falls somewhat to \$5.75 per kW for the 1,001 kW to 10,000 kW class, then
291 rises again to \$6.00/kW for the largest standard voltage class with loads in excess of
292 10,000 kW. It is important to note that the unit cost for standard service for
293 customers above 10,000 kW, as calculated by the Company’s ECOSS, is higher than
294 the unit cost for customers with loads from 0 kW to 100 kW by \$1.12 per kW, or 23
295 percent, and higher than the unit cost calculated for customers with loads between
296 101 kW and 400 kW by \$0.30/kW, or 5 percent. The calculated unit costs for these
297 groups of customers are inconsistent with the generally held view that unit costs of
298 delivery service should decline as the customer load increases.
299

Table 2	
Non-Residential Distribution Facilities Unit Cost (\$/kW-month)	
	\$
Small Load Delivery Class 0-100 kW	\$4.88
Medium Load Delivery Class 101-400 kW	5.70
Large Load Delivery Class 401-1,000 kW	6.08
Very Large Load Delivery Class 1,001-10,000 kW	5.75
Extra Large Load Delivery Class >10,000 kW	6.00
High Voltage Delivery Class >10,000 kW	2.37
High Voltage Delivery Class <10,001 kW	7.21
Source: ComEd Ex. 12.2, p. 2 of 3.	

300

301 Q. IS IT POSSIBLE THAT GREATER DIVERSITY AMONG THE
 302 CUSTOMERS IN SMALLER SIZE CATEGORIES COULD LEAD TO
 303 LOWER AVERAGE UNIT COSTS FOR THOSE SMALLER SIZE
 304 CATEGORIES?

305 A. It is possible that there could be greater diversity among customers in smaller as
 306 opposed to larger size categories. Other things constant, that greater relative diversity
 307 will reduce the average unit cost per kW relative to other classes. However, it is
 308 highly unlikely that greater diversity among the smallest size categories (e.g., 0 kW to

309 100 kW) would overcome the greater cost of having to pay for all of the distribution
310 system, whereas larger customers only impose costs on the higher voltage portions of
311 the system. Thus, I do not believe that greater relative diversity among smaller size
312 categories can explain the counterintuitive results obtained in the Company's ECOSS.

313 Q. WHAT ABOUT THE RELATIONSHIP BETWEEN THE CALCULATED
314 UNIT COST OF SERVICE FOR STANDARD VOLTAGE AS COMPARED
315 TO HIGH VOLTAGE CUSTOMERS? IS THAT RELATIONSHIP
316 LOGICAL IN THE COMPANY'S STUDY?

317 A. Only partly. The unit cost as calculated in the Company's ECOSS for the High
318 Voltage Delivery Class with loads in excess of 10,000 kW is lower than the unit cost
319 as calculated for the Extra Large Load Delivery class, which has customers with loads
320 in excess of 10,000 kW that are served at standard voltages. And the unit cost for
321 these largest, high-voltage customers is the lowest of all the non-residential classes.
322 That makes sense. However, the unit cost as calculated in the Company's ECOSS for
323 High Voltage Delivery Class customers with loads up to 10,000 kW is the highest of
324 all the non-residential classes – \$7.21 per kW-month. Based on the Company's
325 response to DOE 1-65, 30 of the 41 customers in this class have loads in excess of
326 1,000 kW. One customer is in the 0 kW to 100 kW group, four are in the 101 kW to
327 400 kW group, and six have loads between 401 kW and 1,000 kW. Thus, the cost per
328 kW for high voltage customers with loads of up to 10,000 kW is significantly higher
329 than for all comparably sized customers taking service at standard voltages.
330 Importantly, note that the unit cost as calculated for this group of high voltage
331 customers is \$2.33 or 48 percent higher than the unit cost estimated by the
332 Company's ECOSS for standard service customers with loads from 0 kW to 100 kW.
333 This result makes no sense whatsoever.

334 Q. WHAT IS THE IMPLICATION OF THIS LACK OF INTERNAL LOGIC IN
335 THE COMPANY'S ECOSS?

336 A. In my view, this lack of internal logic in the results of ComEd's ECOSS makes the
337 study unreliable as a basis upon which to determine class revenue responsibilities or
338 to design rates. The Company proposes to slavishly and mechanistically translate
339 these estimated unit costs into Distribution Facilities Charges for the non-residential
340 classes of customers. I believe the Commission can have very little faith that the rates
341 to result from such a mechanistic translation of ECOSS unit costs will be fair and
342 reasonable.

343

344 **THE COMPANY'S FAILURE TO DISAGGREGATE BY VOLTAGE**

345 Q. IS THERE A FUNDAMENTAL FLAW IN THE COMPANY'S ECOSS
346 THAT LEADS TO THE KIND OF INTERNALLY INCONSISTENT
347 RESULTS THAT YOU HAVE DESCRIBED?

348 A. Yes. The fundamental flaw in the Company's ECOSS is its failure to disaggregate
349 customers and costs by voltage delivery level below the 69 kV line of demarcation for
350 High Voltage Customers. The Company's ECOSS essentially places all delivery
351 service costs below 69 kV into one bucket. That means that all customers that are
352 served below 69 kV get a share of nearly all of the costs of the entire system below 69
353 kV, regardless of the voltage at which they take service. Thus, a customer that is
354 served at 34.5 kV not only pays for its share of the distribution delivery system from
355 34.5 kV and up, but for most of the distribution system all the way down through the
356 secondary system.

357 Q. WHY IS THIS A FUNDAMENTAL FLAW IN THE COMPANY'S
358 STUDY?

359 A. As I stated earlier, large customers generally take service at higher voltage levels. As
360 I also noted earlier, the Company agrees with this observation. We asked the
361 Company (DOE 1-66 and DOE 4-03) to provide the voltages at which the several
362 classes of non-residential customers take service, but ComEd asserted that it was
363 unable to do so. However, it is reasonable to assume that many, and perhaps most,
364 large, standard voltage, non-residential customers on the ComEd system take service
365 at either 12.5kV or 34.5 kV. This is confirmed by the Company's response to IIEC
366 1.08, Attachment 1. In this response the Company provided a November 13, 2007
367 Loss Study ("2006 ComEd Distribution System Loss Factors"). Appendix C to that
368 study shows that 100 percent of the load of High Voltage customers was served
369 through High Voltage ESS and none of the load of these customers was served
370 through any other element of the distribution system. It also shows that all of the
371 loads of standard voltage customers above 1,000 kW were served through 34 kV
372 elements or 12 kV elements, and that no part of their loads were served by any
373 elements on the system below 12 kV. By failing to disaggregate any voltages below
374 69 kV, the Company's study lumps the costs of the entire system below 69 kV into
375 one bucket, and allocates those costs among all customers served at any voltage up to
376 69 kV. That means that a customer served at 34.5 kV receives a portion of the costs
377 of the entire standard voltage system, including the secondary voltage system, which
378 that customer doesn't use.

379 This fact is confirmed by the Company's response to COC 3.099. That data
380 response states that secondary distribution lines include "all lines and associated
381 equipment operating at voltages less than 2,300 volts." The response goes on to state
382 that the investments in secondary lines and associated equipment include poles,
383 towers and fixtures, overhead conductors and devices, underground conduit and

384 underground conductors and devices. Importantly, these all wind up in subfunction
385 “Distribution Lines,” which gets allocated to classes on the basis of non-coincident
386 class peaks below 69 kV. That means, as the Company’s data response states, that
387 “Customers with load above 10 MW are allocated secondary distribution,” even
388 though the Company’s loss study clearly shows that these customers do not use that
389 portion of the system.

390 Q. SINCE THERE IS A VOLTAGE LINE OF DEMARCATION FOR HIGH
391 VOLTAGE CUSTOMERS, ARE THE HIGH VOLTAGE CUSTOMERS
392 PROTECTED AGAINST RECEIVING AN ALLOCATION OF THE
393 LOWER VOLTAGE DISTRIBUTION SYSTEM COSTS?

394 A. No. Incredible as it may seem, designated High Voltage customers also receive an
395 allocation of a significant part of low voltage system costs, including the secondary
396 system.

397 Q. HOW DOES THIS HAPPEN?

398 A. There are a number of High Voltage customers, both in the class up to 10,000 kW and
399 in the class of customers above 10,000 kW, that also have loads that are fed by
400 Company lines entering the customer’s premises at voltages below 69 kV. Fermi
401 National Accelerator Laboratory is one of these customers. Apparently for ease of
402 billing, these standard voltage loads are metered conjunctively with the customer’s
403 High Voltage loads and billed at the customer’s High Voltage rate. In the ECOSS,
404 these low voltage loads are included in the allocation of the lower voltage distribution
405 system on the basis of loads below 69 kV. Thus the High Voltage classes receive an
406 allocation of the lower voltage distribution system, including a portion of the
407 secondary system.

408 Q. IF MANY OF THE HIGH VOLTAGE CUSTOMERS ALSO RECEIVE
409 SERVICE AT VOLTAGES BELOW 69 KV, IS THIS A PROBLEM?

410 A. Yes. The Company's decision to combine in a single rate class, loads served at
411 voltages below and at or above 69 kV introduces a significant intra-class cross
412 subsidy. The cost of serving loads below 69 kV is understated, while the cost of
413 serving loads at or above 69 kV is overstated under the Company's procedure. This
414 results from the allocation of the costs associated with three categories of distribution
415 facilities: (1) High Voltage Distribution Substations; (2) Distribution Substations; and
416 (3) Distribution Lines. Consider, for example, the allocation of Distribution Lines to
417 the High Voltage Delivery Class with loads above 10,000 kW. Under ComEd's cost
418 of service allocation process, these costs are allocated to the High Voltage Above
419 10,000 kW class on the basis of NCP demands below 69 kV. Thus, even though
420 customers receiving service only at 69 kV or higher bear no cost responsibility for
421 any share of Distribution Lines costs, the inclusion in the High Voltage classes of
422 loads served at voltages lower than 69 kV requires that all members of the class
423 assume the cost responsibility for Distribution Lines costs.

424 Q. DO THESE INAPPROPRIATE COSTS CONSTITUTE A SIGNIFICANT
425 SHARE OF THE TOTAL COST OF SERVICE ALLOCATED TO THE
426 TWO HIGH VOLTAGE CLASSES?

427 A. Yes. This can be seen by reviewing the results on Schedule 2a, page 12 of the
428 Company's revised ECOSS, provided in response to IIEC 1.02 Supp_Attach1.XLS.
429 This schedule shows that, of the total cost of service of \$5,016,676 for the class of
430 High Voltage customers up to 10,000 kW, \$2,367,285, or over 47 percent, is
431 accounted for by the costs of High Voltage Distribution Substations, Distribution
432 Substations and Distribution Lines, which are facilities that are not used to serve the

433 legitimate high voltage loads in this class -- that is, loads that are served by lines
434 entering the customer's premises at voltages at or above 69 kV. For the class of High
435 Voltage customers with loads in excess of 10,000 kW, these costs account for
436 \$3,119,814, or nearly 19 percent of the total cost of service of \$16,818,925 allocated
437 by the Company's ECOSS to this group of customers.

438 Q. IF THESE COSTS ARE ALLOCATED TO HIGH VOLTAGE
439 CUSTOMERS THAT ALSO TAKE SERVICE AT LOWER VOLTAGE
440 LEVELS, THEN WHY DOES THIS RESULT IN AN INTRA-CLASS
441 SUBSIDY?

442 A. The reason is that there is only one rate for both legitimate high voltage loads and
443 loads served at lower, standard voltages. In response to IIEC 4.01, the Company
444 states that, "ECOSS allocates the costs [of Distribution Lines and Substations] ...
445 based only on NCP Below 69 kV...and does not allocate these costs to loads served at
446 voltages entering customers' premises at voltages that are 'at 69 kV' or 'Above 69
447 kV'." In fact, because there is only one DFC for all the loads in this class, legitimate
448 loads at or above 69 kV are required to pay for 95 percent of these costs in the Above
449 10,000 kW High Voltage class because those loads account for 95 percent of the
450 billing demands of that class. (Company Response to DOE 1.17, Attach 1). In the
451 class of High Voltage customers with loads up to 10,000 kW, legitimate high voltage
452 loads at or above 69 kV are required to pay for 85 percent of these low voltage costs
453 because these legitimate high voltage loads account for 85 percent of the billing
454 demands of this class. Thus, high voltage loads that use none of the system below 69
455 kV are being required to pay for the costs of the low voltage system, including
456 portions of the secondary system.

457 Q. BUT IF HIGH VOLTAGE CUSTOMERS ALSO HAVE LOW VOLTAGE
458 LOADS, HOW DOES THIS RESULT IN AN INTRA-CLASS SUBSIDY?

459 A. It would not if all high voltage customers also received standard voltage service in the
460 same proportion. But that is not the case. For example, two of the FEA facilities,
461 Argonne National Laboratory and Great Lakes Naval Training Station, have no
462 standard voltage loads. All of their service is delivered over lines entering their
463 premises at or above 69 kV. Yet, they are required to pay a rate that includes the
464 costs of the standard voltage distribution system, all the way down to significant
465 portions of the secondary system. In general, customers in the two High Voltage
466 classes that take a less than average proportion of their service at standard voltages
467 will be subsidizing those who take more than the average proportion of service at
468 lower voltages.

469 Q. DID YOU ADDRESS THIS SAME ISSUE IN THE PREVIOUS
470 DISTRIBUTION SERVICES CASE NO. 05-0597?

471 A. Yes.

472 Q. HOW DID THE COMMISSION RULE ON THIS ISSUE?

473 A. In its July 26, 2006 Order, the Commission noted that the Company proposed a High
474 Voltage Delivery Class “to take account of the fact that high voltage customers do not
475 utilize a significant portion of ComEd’s overall distribution system (p.199).” It went
476 on to conclude that, “However, the Commission cannot understand how this logic can
477 be extended to the portion of customers’ service provided at standard voltage. Thus,
478 ComEd’s proposal to extend the high voltage discount to service provided at standard
479 voltage is rejected.” During the rehearing phase of the proceeding, ComEd proposed
480 that the Commission reverse itself on this issue in order to facilitate implementation
481 for January 2, 2007, and the Commission accepted the Company’s proposal solely

and specifically for that reason (Order on Rehearing, December 20, 2006, pp. 65-66.)
Thus, despite the Commission's clear rejection of this approach in the last delivery services case, the Company again has combined the standard voltage and high voltage loads of designated High Voltage Delivery customers for purposes of allocating costs and recovering revenues. With adequate time to prepare for this split, unlike the limited time between the Order on Rehearing and the proposed date of implementation in the last case, one would think that the Company would have responded to the Commission's concern that it registered in its July 26, 2006 Order.

Q. HAVE YOU ANALYZED WHAT ADJUSTMENTS ARE REQUIRED TO THE COMPANY'S ECOSSE TO SEPARATE THE COSTS THAT SHOULD BE ALLOCATED TO THE STANDARD VOLTAGE AND HIGH VOLTAGE LOADS OF THE TWO HIGH VOLTAGE CLASSES GIVEN THE OTHER ASSUMPTIONS UNDERLYING THE COMPANY'S STUDY?

A. Yes. The results of this evaluation are presented in DOE Exhibits 1.1 and 2.2, for the High Voltage Delivery Class Above 10 MW, and for the High Voltage Delivery Class Up to 10 MW, respectively. Essentially, the loads of the two High Voltage classes were separated into loads at or above 69 kV and below 69 kV, and these two groups are treated as separate customer classes. Then, with one exception, the demand-related costs that ComEd allocated to the entire class were allocated between these two sub-classes. The allocators used to make this separation are provided in the second page of each exhibit.

Q. PLEASE EXPLAIN THE DETAILS OF THE COMPUTATIONS UNDERLYING THE RESULTS IN DOE EXHIBITS 1.1 AND 1.2.

506 A. The analysis in DOE Exhibits 1.1 and 1.2 is relatively straightforward. Each item in
507 the Company's derivation of distribution costs in Mr. Heintz' ECOSS, which is
508 proposed to be recovered in the DFC, is allocated between loads served at voltages at
509 or above 69 kV and loads served at voltages below 69 kV. The exception is that the
510 Company incorrectly allocated High Voltage Distribution Substations to loads served
511 at 69 kV, and that error is corrected in DOE Exhibits 1.1 and 1.2. The costs of High
512 Voltage ESS were assigned directly to the groups of high voltage loads based
513 specifically on the Company's response to DOE 3-3 and more generally on the
514 responses to several other data requests. The costs associated with High Voltage
515 Distribution Substations, Distribution Substations and Distribution Lines were
516 assigned directly to the "low voltage" subclass, since none of these costs are the
517 responsibility of customers at or above 69 kV. High Voltage Distribution Lines are
518 used to serve both groups of customers and so were allocated based on each group's
519 coincident peaks, which is the same allocator used by the Company. The only other
520 significant cost item to be recovered through the DFC is the Illinois Electricity
521 Distribution Tax, which the Company assigned on the basis of energy use. This cost
522 element was allocated between the two subgroups using the same allocator. The
523 remaining cost item is the Revenue-Related (Distribution) credit, which was assigned
524 in its entirety to the low voltage loads in order to develop a conservative estimate of
525 the differences in costs.

526 Q. WHAT ARE THE RESULTING UNIT COSTS FOR LEGITIMATE HIGH
527 VOLTAGE LOADS UNDER YOUR ADJUSTMENT TO THE
528 COMPANY'S ECOSS?

529 A. The unit demand-related cost is \$1.97/kW-month for customers with loads above
530 10,000 kW, and \$3.95/kW-month for customers with loads up to and including
531 10,000 kW.

532 Q. HOW DO THESE UNIT COSTS COMPARE TO THE UNIT COSTS OF
533 THE OTHER NON-RESIDENTIAL CLASSES THAT YOU PRESENTED
534 IN TABLE 2?

535 A. The resulting unit costs of the legitimate high voltage loads make more sense when
536 compared to the Company's estimated unit costs of the other non-residential classes,
537 which I presented in Table 2. In particular, the unit cost of high voltage loads up to
538 10,000 kW is now the second lowest unit cost of all the non-residential customers.
539 Further, it is lower than the cost of providing standard voltage service for all of the
540 other standard service classes. That means that the cost of serving a high voltage
541 customer is lower than the cost of providing delivery service to a standard voltage
542 customer of similar size. That makes sense.

543 Q. DO THE UNIT COSTS FOR THE STANDARD VOLTAGE LOADS OF
544 CUSTOMERS IN THE HIGH VOLTAGE CLASSES MAKE SENSE?

545 A. No. Those unit costs are \$9.59/kW-month for high voltage customers above 10,000
546 kW and a whopping \$24.49/kW-month for high voltage customers up to 10,000 kW.
547 This implies that the cost of serving these low voltage loads of high voltage
548 customers ranges from 1.6 times to 5.0 times the unit costs of serving the same loads
549 of standard voltage customers in the other non-residential customer classes. This
550 makes no sense at all.

551 Q. DO YOU RECOMMEND THAT THESE ADJUSTED UNIT COST
552 ESTIMATES BE USED TO SET DFC'S FOR THE TWO CLASSES OF
553 HIGH VOLTAGE CUSTOMERS?

554 A. That is not my first recommendation. I firmly believe that the Company's ECOSS is
555 fundamentally flawed by the Company's failure to properly account for the cost
556 differences related to service at different voltage levels. In view of the infirmities of
557 the Company's ECOSS, my first recommendation is that the non-residential
558 Distribution Facilities Charges be adjusted by the average system-wide percentage
559 increase that is allowed by the Commission in this case.

560 If, despite its infirmities, the Commission decides to use the Company's
561 ECOSS as a basis to set rates in this proceeding, then I recommend that the legitimate
562 high voltage loads of customers in the two High Voltage Delivery classes be
563 determined using the adjusted unit costs that are provided in DOE Exhibits 1.1 and
564 1.2.

565 Q. HOW DO YOU RECOMMEND THAT THE LOW VOLTAGE LOADS OF
566 HIGH VOLTAGE CUSTOMERS BE HANDLED?

567 A. There are two possible ways to treat these loads. The first is to use the low voltage
568 unit costs presented in DOE Exhibits 1.1 and 1.2 as the basis for rates for these loads.
569 However, as I just discussed, I believe these costs make little sense and so I
570 recommend against this approach. The sensible way to handle these loads is to
571 include them in the appropriate non-residential customer class. For example, the
572 Fermi Laboratory has low voltage loads that run between 700 and 1,100 kW over the
573 course of a year. It would be appropriate in my view to bill those loads at the rate that
574 the Commission approves for the Very Large Load class, with loads from 1,000 to
575 10,000 kW.

576 Q. WILL IT BE POSSIBLE FOR COMED TO SEPARATELY BILL THESE
577 LOW VOLTAGE LOADS FOR HIGH VOLTAGE CUSTOMERS?

578 A. Yes. First of all, the Company obviously separately meters these loads because the
579 Company was able to provide us with the billing demands and the energy for the
580 loads of High Voltage customers served at standard voltages in response to DOE 1-
581 17. Further, the Fermi standard voltage load is already treated separately by the
582 Company in its billing process since it does not provide the Rider ZSS-7 credit for
583 loads served at less than 345 kV. Finally, based on the Company's responses to DOE
584 1-16 and 1-17, there are only 38 high voltage customers that receive some service at
585 standard voltages. I would think that revising the billing algorithm for this relatively
586 small number of customers would not pose a significant problem.

587 Q. DO YOU HAVE ANY RECOMMENDATIONS REGARDING HOW THE
588 COMPANY SHOULD REVISE ITS ECOSSE TO PROPERLY ACCOUNT
589 FOR VOLTAGE LEVEL DIFFERENCES?

590 A. Establishing customer classes and determining the degree of disaggregation of costs
591 always involves a trade-off between administrative burdens and the benefits
592 associated with more accurately determining class cost responsibilities. In my
593 judgment, and given the general configuration of the ComEd distribution system as I
594 understand it, I think it would be appropriate to require the Company to break down
595 the distribution system below 69 kV into two and possibly three voltage delivery
596 levels – at or above 12.5 kV but below 69 kV; between 2,300 volts and 12.5 kV; and
597 below the 2,300 volts that ComEd uses to define the line of demarcation between the
598 secondary and primary distribution system. At the very least, I urge the Commission
599 to direct the Company to break up the system into the secondary system and
600 everything above secondary but below 69 kV in the preparation of its next ECOSSE.
601

Rider SEA – Storm Expenses Adjustment

602

603 Q. PLEASE SUMMARIZE YOUR UNDERSTANDING OF THE
604 COMPANY'S PROPOSED RIDER SEA.

605 A. Rider SEA is a tracking mechanism that will allow the Company to recover from or
606 return to ratepayers the difference between baseline storm-related O&M expenses
607 hardwired in base rates and actual storm restoration expenses incurred in the previous
608 calendar year.

609 Q. ARE THERE RATE DESIGN IMPLICATIONS OF THE COMPANY'S
610 PROPOSED RIDER SEA?

611 A. Yes. The Company proposes to recover all positive sums or to return all negative
612 sums in Rider SEA through a per kWh charge or credit. This would treat the
613 Company's largest customers, say high voltage customers with loads of greater than
614 10,000 kW, the same as a small residential customer, which is inappropriate. The
615 Company has noted that, "The accounts (according to the Uniform System of
616 Accounts) containing storm costs potentially includable in recovery through Rider
617 SEA would typically be 593 (Maintenance of Overhead Lines), 926 (Employee
618 Pension and Benefits) and 408.1 (Taxes other than income taxes, utility operating
619 income)." An examination of the Company's ECOSSE, ComEd Ex. 13.1, shows how
620 those expenses would ordinarily be allocated to the various classes that use the parts
621 of the system that ordinarily require the bulk of storm restoration efforts. Let me
622 focus on the two high voltage classes because the picture is clearest for these two
623 classes. Those two classes would be allocated approximately from 0.12 percent to
624 0.52 percent of Account 593 expenses, from 0.43 percent to 0.59 percent of Account
625 926 expenses, and from 0.42 percent to 0.61 percent of Account 408.1 expenses.
626 These ranges reflect the difference between pulling low voltage loads out of the High

627 Voltage classes or leaving them in as the Company does. These same two classes are
628 responsible for 5.1 percent of system energy. Thus, the customers in these two
629 classes would receive charges or credits under Rider SEA approximately 10 times the
630 costs that would be allocated to them under the Company's own cost of service study.

631 Q. DO OTHER LARGE NON-RESIDENTIAL CLASSES ALSO WIND UP
632 RECEIVING CHARGES OR CREDITS IN EXCESS OF THE COSTS
633 THAT WOULD BE ALLOCATED TO THEM UNDER THE COMPANY'S
634 COST OF SERVICE STUDY?

635 A. Yes. The results would not be quite as pronounced, in particular because the
636 Company incorrectly allocates portions of the lower voltage delivery system to these
637 other large standard voltage customers. But, the effect is the same. Storm restoration
638 costs are largely focused on the secondary and, to a lesser extent, on the primary
639 system. Thus, the lion's share of these costs or credits should be allocated to those
640 classes that use lower voltage distribution lines and line transformers. To allocate
641 these costs or credits on energy use is incorrect and inequitable.

642 Q. IS THERE AN ALTERNATIVE METHOD BY WHICH TO MAKE THE
643 COMPANY WHOLE FOR UNEXPECTED STORM DAMAGE
644 EXPENSES?

645 A. Yes. It is my understanding that a number of other utilities use a reserve accounting
646 mechanism to recover storm damage expenses on a dollar-for-dollar basis.

647 Q. WOULD THIS RESERVE ACCOUNTING METHOD SOLVE THE RATE
648 DESIGN PROBLEMS?

649 A. Yes. I understand that under a reserve accounting mechanism the Commission would
650 authorize the establishment of a storm damage reserve account into which storm
651 expenses would be recorded. The accruals to the reserve are usually charged to

Account 924, Property Insurance. Based on the Company's ECOSS, I estimate that the two High Voltage classes would receive between 0.5 percent and 0.76 percent of costs in Account 924. While this is a somewhat larger share than the share of these expenses currently allocated to these two classes through the Company's embedded cost of service study (around 0.5 percent), the share is clearly much closer than the share of these classes' energy use (over 5.0 percent). In short, if a reserve accounting mechanism were established, the rate design problem largely goes away.

RIDER ACT

Q. PLEASE DESCRIBE THE EXISTING RIDER ACT.

A. Rider ACT provides for an Allowance for Customer-Owned Transformers. More specifically, the Rider provides for a credit of \$0.20533 per kW for each kilowatt of monthly billing demand (or the Maximum Kilowatts Delivered (MKD)) to those nonresidential retail customers served at 2,160 volts or higher who furnish, install and maintain any and all transformers and other facilities necessary to reduce the voltage of each entering conductor to the customers' utilization voltage. For a customer such as Argonne National Laboratory, this credit essentially reduces the effective DFC, and is worth approximately \$100,000 a year.

Q. WHAT CHANGES DOES THE COMPANY PROPOSE TO RIDER ACT?

A. As spelled out in the testimony of Mr. Alongi and Dr. Jones, ComEd proposes to terminate the payment of the ACT credit for all customers that have received that credit for 30 years, and to offer a voluntary termination of the credit for other customers that own their transformers but have received credits for less than 30 years. The Company proposes to give mandatory termination customers a one-time payment equal to one year's credits based on the average of such credits received for the

677 previous three years. Those customers voluntarily agreeing to end the credits would
678 receive a one-time payment equal to two years worth of credits, also based on the
679 average payment for the previous three years.

680 Q. WHAT IS YOUR UNDERSTANDING OF THE COMPANY'S OBJECTIVE
681 IN MAKING THIS PROPOSAL?

682 A. My sense is that the Company merely wishes to standardize these service
683 arrangements for the approximately 225 customers (ComEd Ex. 12.0, p. 23, line 394)
684 that are currently served under Rider ACT.

685 Q. WHO CURRENTLY OPERATES AND MAINTAINS THESE
686 CUSTOMER-OWNED TRANSFORMERS?

687 A. My understanding is that the customers currently operate and maintain this
688 equipment. Moreover, if a customer-owned transformer fails I understand that the
689 customer is obligated to replace that equipment if it wishes to continue to receive the
690 ACT credits.

691 Q. WHAT DO YOU UNDERSTAND WOULD HAPPEN TO THE
692 TRANSFORMERS THAT ARE CURRENTLY OWNED BY CUSTOMERS
693 AFTER THEY CEASE BEING SERVED UNDER RIDER ACT?

694 A. My understanding is that the customer would continue to own the transformer and
695 that it would continue to provide service. ComEd is not proposing to purchase the
696 transformer. Therefore, the customer would still be responsible for the O&M of the
697 equipment. That customer-owned transformer could continue to service the customer,
698 but the Company would no longer provide the ACT credit. As an alternative, I
699 understand further that the customer could remove the transformer and request
700 standard service of ComEd. For large customers, I understand that ComEd would
701 conduct an engineering study to determine what standard service arrangements would

702 consist of given the particular circumstances of the customer. If the customer wanted
703 something different than standard service, then the customer would pay the difference
704 under Rider NS

705 Q. PLEASE DESCRIBE THE SITUATION WHERE A CUSTOMER WOULD
706 VOLUNTEER TO TERMINATE THE RIDER ACT CREDIT, WHEN THE
707 TRANSFORMER HAS SEVERAL YEARS OF USEFUL REMAINING
708 LIFE.

709 A. In that situation, the customer would still own a transformer with useful life and
710 would presumably continue to operate and maintain the equipment, rather than
711 requesting standard service from ComEd. It would be a straightforward comparative
712 life cycle cost evaluation of receiving the ACT credit for the remainder of the 30 year
713 period or taking the 2-year lump sum payment from the Company. However, unless
714 the customer could strike a deal with ComEd to sell the existing transformer, or
715 unless the transformer were being leased from ComEd and that lease could be
716 terminated, I think it would be unlikely that the customer would opt for standard
717 service, since the transformer that was already paid for would have several years of
718 useful life remaining.

719 Q. WHAT ABOUT CUSTOMERS THAT LEASE THE TRANSFORMER
720 FROM COMED?

721 A. Currently approximately 98 customers lease their transformers from ComEd and also
722 receive an ACT credit (ComEd response to RDL 3.07). Although affected by the
723 terms of the lease agreement with ComEd, the decision is fairly straightforward for
724 these customers. They merely need to compare the stream of lease charges less the
725 ACT credits, with the cost of standard service plus any required Schedule NS charges
726 less the lump sum payment offered by ComEd, to determine what is in their best

727 interests. I suspect that nothing physical would change since the Company owns the
728 equipment in question.

729 Q. DOES COMED BENEFIT BY CUSTOMERS OWNING THEIR OWN
730 TRANSFORMERS AND ASSOCIATED EQUIPMENT?

731 A. Of course. By the customer providing its own transformation equipment, the
732 Company saves the capital costs associated with the equipment plus the cost of
733 operating and maintaining that equipment. In the case of a large customer like
734 Argonne National Laboratory, which has eight 138 kV/13 kV transformers, that cost
735 avoidance will be significant. For example, if the installed cost of the transformers
736 and associated equipment were \$5 million, and the annual rental rate, including
737 O&M, insurance and other loads were approximately 18 percent a year, then the
738 Company's savings would be approximately \$900,000 a year if the Company would
739 have to install the same or similar transformation equipment. For that savings, the
740 Company would pay Argonne approximately \$100,000 a year under the existing
741 Rider ACT. The installed cost of the required transformation equipment would have
742 to fall to \$555,000 for ComEd's savings to fall to zero. It is highly unlikely that
743 ComEd would be able to provide standard transformation service to Argonne for an
744 investment of \$555,000. This comparison would suggest that, if anything, the Rider
745 ACT credit should be increased rather than eliminated.

746 Q. MR. ALONGI AND DR. JONES STATE AT LINES 378 THROUGH 381
747 OF THEIR TESTIMONY THAT THE USEFUL LIFE OF
748 TRANSFORMERS IS ABOUT 30 YEARS, AND THAT THE EXTENSION
749 OF CREDITS NEED NOT EXTEND BEYOND THE TRANSFORMER'S
750 USEFUL LIFE. DO YOU AGREE?

751 Q. No. The customer has taken on the responsibility of providing the necessary step

752 down transformation in order to receive the credit. There was no specified limit on
753 the number of years for which the credit would be given. Moreover, the average
754 useful life of a transformer is irrelevant. If a piece of equipment is kept in excellent
755 condition and provides useful service for 40 or 50 years, ComEd continues to realize
756 the savings. Argonne National Laboratory has probably received the credit for 30
757 years since it has some transformers that are approximately 40 years old. However,
758 its largest four transformers were installed between 15 and 18 years ago, and so have
759 several years of useful life remaining. Moreover, I know for a fact that Argonne staff
760 fully expect to have to replace its transformers at the government's expense if and
761 when they fail. Thus, the saving to ComEd will essentially be realized in perpetuity.
762 I would note that there is no termination of Rider NS charges when the useful life of
763 any special equipment that it provides reaches its average useful life. Indeed, Rider
764 NS states explicitly that special facilities will be furnished, "...provided that the
765 Company is allowed to recover from the retail customer the costs of furnishing,
766 installing, owning, operating, **replacing**, and maintaining such services or facilities
767 (emphasis added)." The same concept should be applied to Rider ACT credits.

768 Q. ARE THERE CUSTOMERS THAT LEASE TRANSFORMERS FROM
769 COMED WHICH MIGHT BE ABLE TO SAVE MONEY UNDER THE
770 COMPANY'S PROPOSAL?

771 A. According to the Company's response to IIEC Request 2.88, that is apparently the
772 case. It is stated there that, "...there are 83 customers that own some of the
773 transformers at their premises and rent others from ComEd. For many, if not all of
774 those customers, the reduction in Rider NS rental charges would exceed the Rider 8
775 [ACT] credit that they currently receive resulting in savings, all other things being
776 equal."

777 Q. GIVEN THAT SOME CUSTOMERS MIGHT BE ABLE TO SAVE
778 MONEY UNDER THE COMPANY'S PROPOSAL, IS THERE AN
779 ADJUSTMENT TO RIDER ACT THAT YOU CAN SUPPORT?

780 A. Yes. The only objection I have to the Company's proposal is the mandatory aspect
781 for customers that have been receiving the credit for 30 years. As I noted above, the
782 30 year average useful life of transformers is irrelevant to whether the Company will
783 realize savings or whether that credit should be continued. I can support the
784 voluntary aspect of the Company's proposal. If every customer, regardless of how
785 long it has been receiving the credit, were to be given an incentive to terminate its
786 Rider ACT service, then each customer could undertake its own comparative life
787 cycle cost analysis to determine what is in its best interests. That could be done in
788 conjunction with discussions with the Company regarding what would be the cost
789 under standard service plus possible Rider NS charges, so that the customer could
790 make a rational choice. This strikes me as a reasonable and equitable way to
791 mutually terminate what would seem to be essentially a long term, ongoing, mutually
792 beneficial arrangement between the customer and ComEd. I would also note that, if
793 the response to ComEd's offered incentive payments leads to an insufficient number
794 of customers terminating their Rider ACT service in the Company's view, then
795 ComEd need only raise the amount of the incentive payments to solicit the response
796 that it desires for whatever administrative or other cost saving reasons it may have.

797 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

798 A. Yes, it does.

DALE E. SWAN

Dr. Swan is a senior economist and principal at Exeter Associates, Inc. His areas of expertise include energy supply and demand analysis, electric industry restructuring, utility cost allocation and rate structure design, utility contract negotiation, antitrust policy, and public utility regulation.

Dr. Swan has presented expert testimony in utility rate cases before the Federal Energy Regulatory Commission and before numerous state regulatory commissions. He has testified on marginal and embedded costing, rate structure design, long-term demand forecasting, short-term sales forecasts, the treatment of off-system sales, electric industry restructuring, and antitrust considerations. He has directed major projects for the U.S. Department of Energy, the U.S. Air Force, and the Rhode Island Public Utilities Commission on such issues as alternative power supply options and innovative rate structure experiments and implementation, and he has prepared and presented seminars and workshops on such issues as marginal costing, rate design, and interruptible rates for, among others, the National Regulatory Research Institute, the U.S. Department of Energy, and for state commission staffs in Maryland, Minnesota, and New Hampshire.

Dr. Swan has assisted federal agencies in the negotiation of electric power supply contracts and in the financial and locational assessment of transmission and generation projects. He has also prepared reports to several federal and state agencies on costing methods, rate design, the demand for electric power, PURPA requirements, bulk power supply planning, stranded cost recovery, standby rates, value-of-service pricing, the use of special contracts, and other issues. He has also acted as an Advisor to the Maine Public Utilities Commission in the restructuring proceedings for the three investor-owned Maine electric companies.

Education:

B.S. (Business Administration) - Ithaca College, 1962.

M.A. Program in Economics - Tufts University, 1962-63.

Ph.D. (Economics) - University of North Carolina at Chapel Hill, 1972.

Previous Employment:

1976-1980	-	Senior Economist, J.W. Wilson & Associates, Inc.
1974-1976	-	Associate Professor of Economics, Jacksonville State University
1974	-	Economist, Office of Energy Systems, Federal Energy Administration
1973	-	Staff Economist, Economics Department, Arabian-American Oil Company

1968-1973	-	Assistant and Associate Professor of Economics, Hampden-Sydney College
1969-1973	-	Visiting Assistant Professor of Economics, Randolph-Macon Womans College
1967-1968	-	Assistant Professor of Economics, Southern Methodist University
1966-1967	-	Visiting Assistant Professor of Economics, North Carolina Central University
1963-1964	-	Market Research Analyst, The Carter's Ink Company

Previous Professional Work:

At J.W. Wilson & Associates, Inc., Dr. Swan had primary responsibility for the development and direction of several of the firm's largest projects relating to the electric utility industry and costing and rate design issues in particular. Dr. Swan also had major responsibilities in the areas of cogeneration, antitrust, PURPA requirements, and technical assistance to state regulatory authorities under DOE grant programs.

At the Federal Energy Administration, Dr. Swan participated in the development of a National Energy Accounting System, similar to and compatible with the National Income and Product Accounts and the U.S. Input/Output Accounts. During his tenure at Jacksonville State University, Dr. Swan continued with this work as a consultant to the FEA.

While with ARAMCO, Dr. Swan prepared financial analyses of capital investment alternatives, developed cost trend estimates for price negotiations, and initiated the preparation of revised price trend factors to be used for budgeting purposes.

At Carter's Ink Company, Dr. Swan was responsible for conducting new product and new market research for the Director of Marketing, including consumer attitudinal studies on new product and packaging designs.

Dr. Swan has taught both graduate and undergraduate courses during his academic career. Among the courses he has taught are Microeconomic Theory, Industrial Organization, Economic History, International Trade, Economic Development, and Principles of Economics.

Selected Publications, Papers, and Reports:

“Fermi National Accelerator Laboratory Phase 1 Electric Supply Options Study,” (Exeter Associates, Inc., for the U.S. Department of Energy, Federal Energy Management Program, December 2004.)

“Phase 1 Electric Power Options Study for Brookhaven National Laboratory,” (Exeter Associates, Inc. for the U.S. Department of Energy, Federal Energy Management Program, June 2004).

“Phase 1 Electric Supply Options Study for Fermi National Accelerator Laboratory,” (Exeter Associates, Inc. for the U.S. Department of Energy, Federal Energy Management Program, December 2004).

“Electric Power and Natural Gas Supply Options Study for the DOE Oak Ridge Reservation,” (Exeter Associates, Inc., for the U.S. Department of Energy, Federal Energy Management Program, March 2004).

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Department of Energy Utility Conferences, 1985, 1986, 1990, 1992, 1995, 1996, 1997.

DOD/DOE Combined Utility Planning Conference, March 1987.

American Historical Association Meetings, 1981.

National Regulatory Research Institute Workshop on Time-of-Use Rates, September 1979.

National Regulatory Research Institute State Needs Assessment Conference, August 1979.

Southern Economic Association Meetings, 1969, 1972, 1975.

Economic History Association Meetings, 1972.

Expert Testimony

Presented by Dale E. Swan

1. Before the Public Utilities Commission of the State of Ohio, Case No. 78-676-EL-AIR, on marginal costs and electric rate structure design.
2. Before the Public Utilities Commission of the State of South Dakota, Docket No. 3362, on marginal costs and electric rate structure design.
3. Before the Public Utilities Commission of the State of South Dakota, Docket Nos. F-3240 and F-3241, on electric rate structure design.
4. Before the Public Utilities Commission of the State of Rhode Island, Docket No. 1311, on the design of a proposed inverted rate structure experiment.
5. Before the Public Utilities Commission of the State of Rhode Island, Docket No. 1262, on the operation and the results of a time-of-day rate experiment.
6. Before the Public Utilities Commission of the State of South Dakota, Docket No. F-3116, on test year sales forecasts.
7. Before the Public Utilities Commission of the State of Montana, Docket No. 6441, on test year sales forecasts.
8. Before the Public Service Commission of the State of Maryland, Case No. 6807, on long-term demand forecasting methodology.
9. Before the Public Service Commission of the State of New York, Docket No. 27136, on test year sales forecasts and economic impact.
10. Before the Federal Energy Regulatory Commission, Docket No. ER77-530, on retail competition in the Ohio electric power market.
11. Before the Public Service Commission of the State of Maryland, Case No. 7441 (Phase III), on electric rate structure design and PURPA ratemaking standards.
12. Before the Public Utilities Commission of the State of Rhode Island, Docket No. 1591, on class revenue requirements and electric rate structure design.
13. Before the Public Utilities Commission of the State of Rhode Island, Docket No. 1606, on PURPA Section 111 standards, class cost-of-service, and rate structure design.
14. Before the Public Utilities Commission of the State of Rhode Island, Docket No. 1605, on class revenue requirements and electric rate structure design.

15. Before the Public Utilities Commission of the State of Idaho, Case No. U-1006-185, on class revenue requirements and rate design.
16. Before the Illinois Commerce Commission, Docket No. 82-0026, on marginal-cost-based class revenue responsibilities and rate design.
17. Before the Public Utilities Commission of the State of Idaho, Case No.. U-1009-120, on contractual arrangements, embedded-cost-based class revenue requirements, and rate design.
18. Before the Public Utilities Commission of the State of Maryland, Case No. 7695, on proper electric class cost-of-service methodologies.
19. Before the Public Service Commission of Nevada, Docket No. 83-707, on marginal-cost-based class revenue responsibilities and rate design.
20. Before the Illinois Commerce Commission, Docket No. 83-0537, on marginal-cost-based class revenue responsibilities, rate design, and rate schedule qualification standards.
21. Before the Public Utilities Commission of the State of Idaho, Case No. U-1009-137, on jurisdictional separations, embedded class cost-of-service studies, interruptible service credits, and class revenue requirements.
22. Before the South Carolina Public Service Commission, Docket No. 84-122-E, on embedded class cost-of-service methodologies, class revenue requirements, and rate design.
23. Before the Public Utilities Commission of the State of Idaho, Case No. U-1500-157 (May 1985), on the public interest aspects of declaring one utility as the sole supplier of the Idaho National Engineering Laboratory.
24. Before the Illinois Commerce Commission, Docket Nos. 83-0537 (Step 2) and 84-0555 (Consolidated), June 1985, on marginal-cost-based class revenue responsibilities and rate design.
25. Before the Public Utilities Commission of the State of Idaho. Case No. U-1006-265A (May 1987), on embedded class cost-of-service studies, class revenue requirements, and rate design.
26. Before the Public Utilities Commission of the State of Maine, Docket No. 86-242 (August 1987), on by-pass and incentive rate discounts for large industrial customers.
27. Before the Illinois Commerce Commission, Docket No. 87-0427, (February and April 1988), on marginal-cost-based class revenues, Ramsey pricing considerations, and industrial rate design.

28. Before the Illinois Commerce Commission, Docket No. 87-0695, (April 1988), on marginal-cost-based class revenues, Ramsey pricing issues, and industrial rate design.
29. Before the Indiana Utility Regulatory Commission, Cause No. 37414-S2 (October 1989), on ratemaking treatment of off-system sales, embedded cost-of-service study, and rate design.
30. Before the Public Utilities Commission of the State of Maine, Docket 89-68 (January 1990), on measurement and use of marginal costs for determining class revenues.
31. Before the Federal Energy Regulatory Commission, Docket No. EC90-10-000, et. al. (May 1990), with Matthew I. Kahal, on the potential effects of the Northeast Utilities acquisition of Public Service New Hampshire on market concentration and competition in the New England bulk power market.
32. Before the Illinois Commerce Commission, Docket No. 90-0169 (August and October 1990), on the estimation of marginal costs, class revenue responsibilities, and industrial rate design.
33. Before the Public Service Commission of Nevada, Docket Nos. 91-5032 and 91-5055 (September 1991), on the estimation of marginal costs, class revenue responsibilities and rate design for large power users.
34. Before the Public Service Commission of Nevada, Docket No. 92-1067 (May 1992), on the estimation of marginal costs, the cost of providing interruptible power, class revenue responsibilities, and rate design for large power users.
35. Before the Public Utilities Commission of the State of Maine, Docket No. 92-095 (February 1993), Affidavit regarding the efficacy of rate discounts in attracting new business.
36. Before the Public Utilities Commission of the State of Maine, Docket No. 92-315 (June 1993), on revamping of the rate structure to meet competition for sales.
37. Before the Public Utilities Commission of the State of Maine, Docket No. 92-345 (August 1993), with Marvin H. Kahn, on price cap mechanisms as an alternative form of regulation.
38. Before the Public Service Commission of Nevada, Docket No. 92-9055 (October 1993), on franchise rights to serve a large DOE customer.
39. Before the Illinois Commerce Commission, Docket No. 94-0065 (June 1994), on the estimation of marginal costs, class revenue responsibilities, and industrial rate design.
40. Before the Public Service Commission of Nevada, Docket No. 93-11045 (June 1994) on the estimation of marginal costs, environmental externality adders, competition for loads, and class revenue responsibilities.

41. Before the Idaho Public Utilities Commission, Case No. IPC-E-94-5 (November 1994), on embedded class cost allocation and class revenue responsibilities.
42. Before the Public Utilities Commission of the State of Maine, Docket No. 92-315 (II) (March 1995), on the estimation of marginal distribution demand and customer costs.
43. Before the Public Utilities Commission of the State of Maine, Docket No. 95-052 (RD) (October 1995 and January 1996), with Daphne Pscharopoulos, on the estimation of marginal costs as the basis for class revenues and rate design.
44. Before the Public Service Commission of Nevada, Docket No. 96-7020 (November 1996), on the estimation of marginal costs, class revenue responsibilities, and the reasonableness of fixed, up-front facilities charges.
45. Before the Public Service Commission of Montana, Docket No. 97.7.90 (November 1997 and March 1998), on aspects of Montana Power Company's proposed restructuring plan.
46. Before the Illinois Commerce Commission, Docket No. 99-0117 (April 1999), on the design of distribution delivery rates for Commonwealth Edison Company.
47. Before the Public Utilities Commission of Nevada, Docket Nos. 99-4005 and 99-4006, (November 1999), on the design of an electric distribution service tariff for Nevada Power Company.
48. Before the Public Utilities Commission of Nevada, Docket No. 99-7035 (January and February 2000), on Nevada Power proposed revision to its base rates and deferred energy adjustment rates, including the recovery and allocation of deferred capacity costs and the appropriate calculation of annualized fuel and purchased power costs.
49. Before the Illinois Commerce Commission, Docket No. 01-0423 (August, October 2001), on the proper design of distribution delivery rates for Commonwealth Edison Company.
50. Before the Public Utilities Commission of the State of Maine, Docket No. 2001-239 (November 2001), on appropriate procedures governing the provision of rate discounts to retain or attract customers.
51. Before the Public Utilities Commission of Nevada, Docket Nos. 01-10001, 01-10002 and 01-11029 (February 2002), on Nevada Power Company's proposed class cost allocations and revisions to its base rates.
52. Before the Illinois Commerce Commission, Docket No. 02-0479 (August 2002), on the appropriateness of the Company's petition to have bundled Rate 6L service to customers with loads of 3 MW or more declared a competitive service, thereby eliminating Rate 6L as a service of last resort for these customers.

53. Before the Illinois Commerce Commission, Docket Nos. 02-0656, 02-0671, and 02-0672 (CONS.) (December 2002), on proposed changes to Commonwealth Edison Company's retail access options.
54. Before the Public Utilities Commission of Nevada, Docket Nos. 03-10001 and 03-10002 (January 2004), on Nevada Power Company's proposed class revenue allocation and the imposition of new Customer Specific Facilities Charges on certain large customers.
55. Before the Illinois Commerce Commission, Docket No. 05-0159 (June 2005), on the need for Commonwealth Edison Company to offer a fixed-price POLR service to large customers.
56. Before the Illinois Commerce Commission, Docket No. 05-0597 (February 2006), on the allocation of costs and the design of rates for retail delivery service.

CERTIFICATE OF SERVICE

I, Arthur Perry Bruder, attorney for the United States Department of Energy, hereby certify that, on Monday, February 11, 2008, in order to meet the service requirements in Illinois Commerce Commission proceeding No. 07-0556, which concerns the rates of Commonwealth Edison Company, I:

(1) placed the Testimony and Exhibits of Dr. Dale E. Swan on the Illinois Commerce Commission's E-Docket, in accordance with the applicable procedures;

(2) served the Testimony and Exhibits of Dr. Dale E. Swan via email on both of the Administrative Law Judges and on the entire service list.

**Arthur Bruder
February 11, 2008**

Delivery Service Rate Case

Docket No. 07-0566

High Voltage Delivery Class Customers Up To 10 MW Allocation Factors

Line Nos.	Allocation Factors	ICC Total	Total Class	69 kV And Above	Below 69 kV
1	Energy Delivered to HV Class At Distribution Level	91,061,817	384,419	203,369	181,050
2	Percent of ICC Total		0.42%	0.22%	0.20%
3	Coincident Peak Demand - ALL	21,686,584	50,587	28,651	21,936
4	Percent of ICC Total		0.23%	0.13%	0.10%
5	Coincident Peak - Below 69 kV	21,159,191	21,936	-	21,936
6	Percent of ICC Total		0.10%	0.00%	0.10%
7	Non-Coincident Peak Demand Below 69kV	23,460,965	45,377	-	45,377
8	Percent of ICC Total			0.00%	0.19%

Source:

ComEd Response to IIEC 1.02 Supp_Attach1
ComEd Response to DOE 1.17_Attach 1